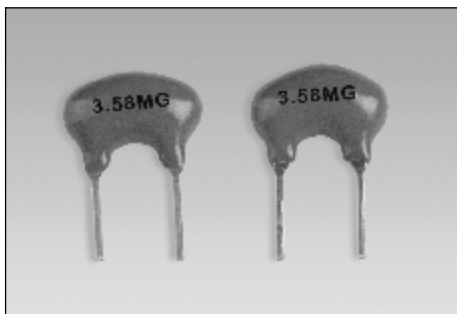




• ZTA Series



The ZTA series ceramic resonator is the miniature low profile frequency control products. It is of very competitive price than quartz crystal parts and of high stability that make it substitute the quartz crystal when need lower price.

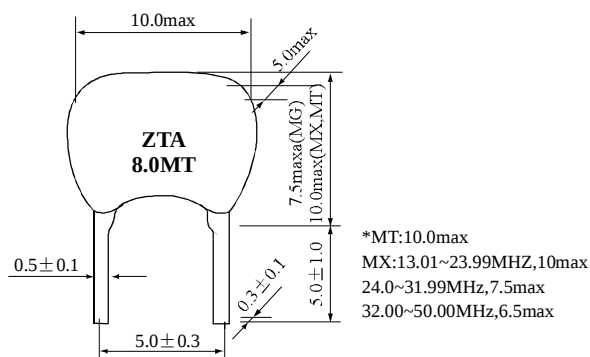
FEATURES

- Low Cost
- High Stability
- Wide Frequency Range
- Small Compact Size

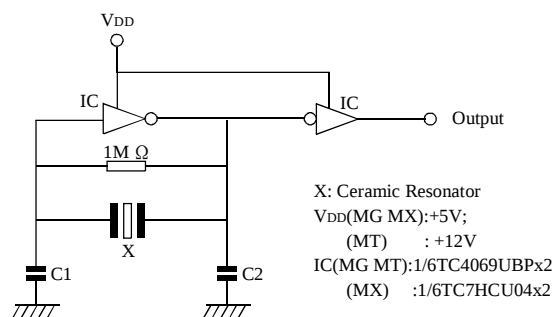
Electrical Specifications

Part Number	ZTA□.□□MG	ZTA□.□□MG	ZTA□.□□MG	ZTA□□.□□MT	ZTA□□.□□MX
Frequency Range (MHz)	1.80 to 2.99	3.00 to 3.49	3.50 to 5.99	6.00 to 12.99	13.00 to 50.00
Frequency Accuracy(at 25°C) (%)	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
Stability in Temperature -20°C to +80°C (%)	± 0.3	± 0.3	± 0.3	± 0.3	± 0.3
Aging For Ten Years(%)	± 0.3	± 0.3	± 0.3	± 0.3	± 0.3
Resonator Resistance(Ω) Max	80	50	30	25	35
Withstanding Voltage (5 seconds Max.)	100V _{DC}	100V _{DC}	100V _{DC}	100V _{DC}	100V _{DC}
Insulation Resistance Minimum(at 10V _{DC})	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$

Mechanical Dimensions(mm)



Test Circuit For MOS IC



Part Number	Frequency Range	Circuit Constants	
		C1(PF)	C2(PF)
ZTA□□.□□MG, MT	1.800~12.99	30	30
ZTA□□.□□MX	13.00~19.99	30	30
	20.00~25.99	15	15
	26.00~50.00	5	5

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Ceramic Resonator Part Numbering System

<u>EZ</u> ↓ Internal Code	<u>TA</u> ↓ Package	<u>03580</u> ↓ Nominal Frequency	<u>D</u> ↓ Tolerance	<u>B</u> ↓ Option
	TA=High frequency 2 pin ZTA series TB=Low frequency 2 pin ZTB series TT=High frequency 3 pin ZTT series TY=SMD of ZTB ZTBY series TD=SMD of ZTA with CC ZTACC series TF=SMD of ZTA with CS ZTACS series TG=SMD of ZTA with CV ZTACV series TJ=SMD of ZTA with CW ZTACW series TE=SMD of ZTT with CC ZTTCC series TH=SMD of ZTT with CS ZTTCS series TI=SMD of ZTT with CV ZTTCV series TK=SMD of ZTT with CW ZTTCCW series	03580=3.58MHz 50000=50.000MHz 00455=455KHz 01250=1250KHz	A=0.1% B=0.2% C=0.3% D=0.5% E=± 1KHz f= ± 2KHz	L=Cut lead R=Tape and Reel G=Gull Wing B=Tape and Box X=Special

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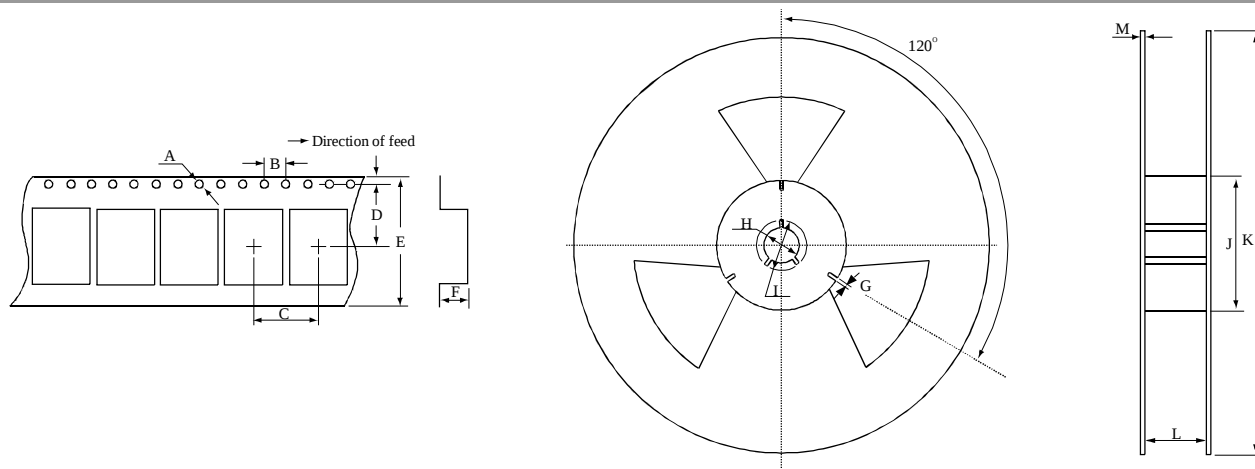
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TAPE AND REEL SPECIFICATION FOR SMD PRODUCTS



TAPE SPECIFICATION

Unit:mm

Model	A	B	C	D	E	F	QTY/REEL
HC-49SMA	φ 1.50	4.0	12.0	11.5	24.0	4.35	1000
HC-49SMB	φ 1.50	4.0	12.0	11.5	24.0	3.5	1000
TAB	φ 1.50	4.0	4.0	3.5	8.0	0.60	3000
1AB	φ 1.50	4.0	4.0	3.5	8.0	0.65	3000
2SB,3SB,3FB	φ 1.50	4.0	4.0	3.5	8.0	1.0	3000
4SB	φ 1.50	4.0	4.0	3.5	12.0	1.0	3000
5FA,5FB,5SB	φ 1.50	4.0	8.0	5.5	12.0	1.5	1000
6SB	φ 1.50	4.0	8.0	5.5	12.0	1.5	1000
7SB	φ 1.50	4.0	8.0	7.5	16.0	1.6	1000
8FA	φ 1.50	4.0	8.0	7.5	16.0	2.0	1000
HXO-N,HXO-QN	φ 1.50	4.0	4.0	3.5	8.0	0.9	3000
HXO-S,HXO-QS	φ 1.50	4.0	4.0	3.5	8.0	1.3	3000
HXO-5,HXO-Q5,VC-T	φ 1.50	4.0	8.0	5.5	12.0	1.5	1000
HXO-3,HXO-Q3, HXO-P3,HXO-T3	φ 1.50	4.0	8.0	7.5	16.0	2.0	1000
VC-S,VC7CC	φ 1.50	4.0	8.0	7.5	16.0	2.0	1000
ZTACC,ZTTCC	φ 1.50	4.0	8.0	7.5	16.0	2.1	4000
ZTACS,ZTTCS	φ 1.50	4.0	8.0	5.5	12.0	1.8	1000
ZTACV,ZTTCV	φ 1.50	4.0	8.0	5.5	12.0	1.3	1000
ZTACW,ZTTCW	φ 1.50	4.0	4.0	3.5	8.0	1.3	3000

REEL SPECIFICATION

Model	G	H	I	J	K	L	M
HC-49SMA	2.5	φ 13.5	21.6	99.5	330	25.5	2.3
HC-49SMB	2.5	φ 13.5	21.6	99.5	330	25.5	2.3
TAB,1AB	2.5	φ 13.5	21.6	60.0	180	9.5	1.6
2SB,3SB,3FB	2.5	φ 13.5	21.6	60.0	180	9.5	1.6
4SB	2.5	φ 13.5	21.6	60.0	178	9.5	1.6
5FA,5FB,5SB	2.5	φ 13.5	21.6	60.0	178	13.5	1.6
6SB	2.5	φ 13.5	21.6	60.0	178	13.5	1.6
7SB	2.5	φ 13.5	21.6	60.0	178	17.5	1.6
8FA	2.5	φ 13.5	21.6	60.0	178	17.5	1.6
HXO-N,HXO-QN	2.5	φ 13.5	21.6	60.0	178	9.5	1.6
HXO-S,HXO-QS	2.5	φ 13.5	21.6	60.0	178	13.5	1.6
HXO-5,HXO-Q5,VC-T	2.5	φ 13.5	21.6	80.0	178	13.5	1.6
HXO-3,HXO-Q3, HXO-P3,HXO-T3	2.5	φ 13.5	21.6	80.0	178	17.5	1.6
VC-S, VC7CC	2.5	φ 13.5	21.6	80.0	178	17.5	1.6
ZTACC,ZTTCC	2.0	φ 13.5	21.6	80.0	330	16.4	3.0
ZTACS,ZTTCS,ZTACV,ZTTCV	2.0	φ 13.5	21.6	60.0	180	12.4	3.0
ZTACW,ZTTCW	2.0	φ 13.5	21.6	60.0	180	8.4	3.0

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